PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP		RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR		
PPP	111	RRR RRR RRR RRR RRR RRR	111 111 111	
PPP PPP	111	RRR RRR	†††	iii
PPP PPP PPP		RRR RRR RRR RRR RRR RRR	††† ††† †††	

_\$2

PLI PLI PLI PLI

PLI PLI PLI PLI PLI PLI PLI PLI

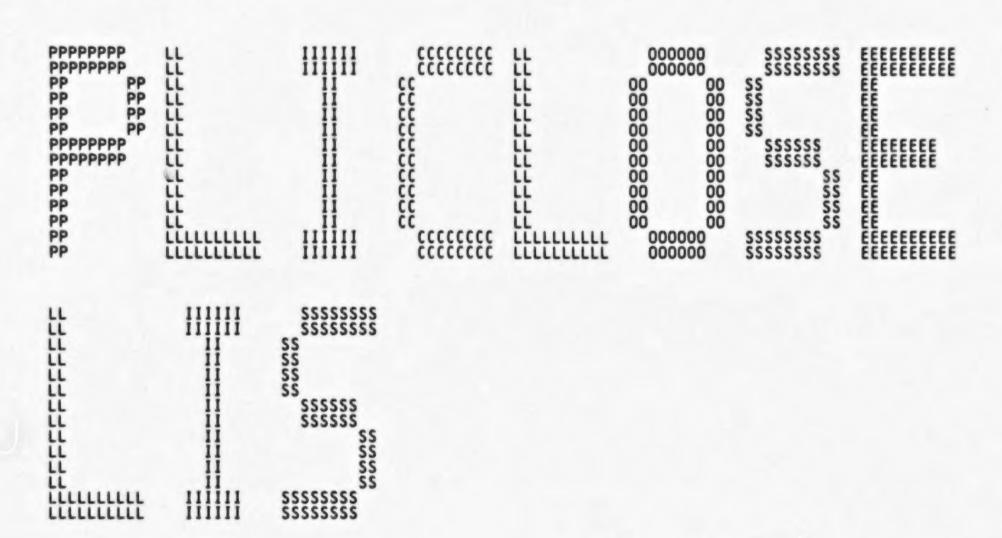
PLI PLI PLI

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PL!

....

....



18

Page

(1)

.title pli\$close - pl1 runtime close file .ident /1-004/

H 14

: Edit DSB1004 : Edit CGN1003 : Edit WHM1002

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facility:

VAX/VMS PL1 runtime library. abstract:

This module contains the pl1 runtime routine for closing a file. author: c. spitz 18-jul-79

modified:

1-002 29-September-1982 Bill Matthews Invoke macros \$defdat and rtshare instead of \$defopr and share.

1-003 Chip Nylander 23-February-1983 Add new optional parameter to PLISCLOSE. If parameter is present, it specifies the severity level at which to signal errors.

1-004 Dave Blickstein 26-March-1984 Change calls to LIB\$FREE_VM to specify only the actual number

PL!

Page

local data

rtshare

;sharable

PLISCLOSE 1-004

```
VAX/VMS Macro V04-00 [PLIRTL.SRC]PLICLOSE.MAR; 1
```

```
plisclose -- close a file
                                                  functional description:
                                                  This routine closes a pl1 file. The syntax of a close statement is: CLOSE FILE(file-ref);
                                                  inputs:
                                                          (ap) = number of arguments (1)
4(ap) = address of the fcb for this file
8(ap) = address of the environment option
                                                         12(ap) = severity level at which to signal errors
                                                  outputs:
                                                          the fcb is updated to reflect the closed status of the file. an rms close is issued, the file block is deallocated, and the fcb is removed from the open fcb list.
                          OOFC
                                                          .entry pli$close.^m<r2.r3.r4.r5.r6.r7>
                                                  check argument
                            D5
14
D4
D0
31
                                                                     (ap)
                                                           tstl
                                                                                                    ; if no parameters
                                                          bgtr
                                                                                                    : then
                                                          clrl
                                                                                                    ; indicate no fcb
    50
          00000000'8F
                                                                                                    ;set invalid parameters
                                                          movl
                                                                     #plis_parm,r0
                                                          brw
                                                                                                    ; and fail
                                                ; if file opened, close it.
                                                                    #atr_v_opened,fcb_l_attr(r2),20$; if file opened
       03 OC A2
                                                105:
                                                          movl
                                                          bbs
                                                          brw
                                                                    CA
                                                205:
                                                          bicl
                            9E
03
               00A6
                                                          movab
          00001040
OC A2
                                                          bitl
                                                                    #atr_v_print.fcb_l_attr(r2),25$ ; if not print, cont
fcb_l_prn(r2) ; any carriage control pends
       05 OC A2
                          121
E15
121
130
160
195
160
195
170
170
                                                          bnea
                                                          bbc
                                                                                                    :any carriage control pending?
                                                          tstl
                                                                     26$ ; if neq, yes, print it fcb_l_buf(r2), fcb_l_buf_pt(r2); if buf empty
                                                          bnea
       1C A2
                                                25$:
                 14
                                                          cmpl
                                                                                                    then cont
                                                          begl
                                                265:
                                                          pushl
                                                                                                    save ap
set fcb addr in ap
         00000000 GF
                                                          movl
                                                                     g*pli$$put_rec
                                                                                                    put the last record
                                                          jsb
                                                                                                    :restore ap
                                                          popl
                                                305:
               02
                                                                                                    :close environment?
                                                           cmpl
                                                          blss
                                                                                                    ; if lss, no
                  08
                                                                                                    anything there?
                                                          tstl
                                                                     8(ap)
                                                          beql
                                                                                                    ; if eql, no
               5E
                                                                                                    :get room for env block
;save fcb and rab addr
                                                                    #env_k_len,sp
r2,r6
                                                          subl
                                                          pvom
```

```
K 14
PLISCLOSE
1-004
                                                - pl1 runtime close file
                                                                                                                                                VAX/VMS Macro VO4-00
[PLIRTL.SRC]PLICLOSE.MAR; 1
                                                                                                                                                                                                     (1)
                                                                                                 #0,(sp),#0,#env_k_len,(sp) ;zero env block
r6,r2 ;restore fcb and fab
            6E
                    22
                                                  27CDDDD999FE84
                                                                                     movc5
                                                                  14434567890123456789
                                                                                     pvom
                             00000040
                                                                                     bisl
                                                                                                 #env_m_close.env_l_status(sp) ;set close status
sp ;set addr of env block
                                                                                     pushl
                                                                                                 S(ap)
                                      08
                                                                                                                                      set addr of close environment set addr of fcb
                                                                                     pushl
                                                                                                 72
8(sp)
                                                                                     pushl
                                      08
08
08
                                                                                     pushab
                                                                                                                                      :set addr of addr
                                                                                     pushab
                                                                                                  8(sp)
                                                                                                                                      ;set addr of addr
                                                                                                 8(sp)
                                                                                     pushab
                                                                                                                                      :set addr of addr
                                                                                                 #6.g^pli$$envir
r0.37$
                     00000000 GF
                                                                                                                                       process environment
                                                                                     calls
                                                                                                                                      ;if lbs, cont
;error already signaled, just return
;close the file
;if error on close
                                      01
                                                                                     blbs
                                                                                      ret
                                                                         37$:
                                                                                      Sclose
                                                        0098
009B
00A2
00A6
00A9
                                                  E8
00
00
                                                                                                 r0,60$
#pli$_rmsf,r0
r0,fcb_l_error(r2)
r2,r1
                                                                                     blbs
                             00000000
                                                                                                                                       then set rms fab error code
                                                                                     movL
                                                                         405:
                              08
                                                                                                                                      ;put error in fcb
;set fcb address
                                                                                     movl
                                                                                     movL
                                                  DD
                                                                         50$:
                                                                                                                                       :push fcb addr
                                                                                     pushl
                                                                                     pushl
                                                                                                                                       :push error code
                                                                                                 Mplis error
(ap),#3
                                                        00AD
00B3
00B6
00B8
                                                  DD
D1
19
                                                                   160
161
162
163
164
165
                                                                                                                                      set error condition
error level specified?
if lss, no
                             00000000
                                                                                     pushl
                                                                                      cmpl
                                                                                     blss
                                                  FO
                                                                                                 12(ap),#0,#3,(sp)
#3,g°pli$io_error
                                      00
                                                                                      insv
                                                                                                                                       ; set severity to specified level
                                                  FB
04
                                                        00BE
00C5
                     00000000 GF
                                                                         538:
                                                                                     calls
                                                                                                                                       signal the condition
                                                                                     ret
                                                                                                                                      ; return
                                                                                                 #plis_virmemdeal,r0
40$
                                                                   166
                             00000000'8F
                                                                         55$:
                                                                                                                                      :set vir. mem. deallocation error ;and fail
                                                                                     movl
                                                        00CD
00CF
                                                                                     prp
                                                         OOCF
                                                                            deallocate file buffer
                                                        OOCF
                                                                         605:
                                      14 A2
27
0C
                                                        OOCF
                                                                                                 fcb_l_buf(r2)
                                                                                                                                       ; if buffer allocated
                                                        0002
                                                                                     beal
                                                                                                                                       ; then
                                                                                                 #atr_v_record,fcb_l_attr(r2),70$ ;if stream
fcb_w_linesize(r2),=(sp) ;set length of buffer
75$
                         06 OC AZ 2A
                                                        00D4
                                                                                     bbs
                                           A2
03
                                                        00D9
                                                                                     movzwl
                                                        OODD
                                                                                     prp
                                                                   176
177
                                                  DD
                                                        OODF
                                                                                                 fcb_l_buf_end(r2)
fcb_l_buf(r2)
4(sp)
                                                                                                                                       push length of buffer
                                                                                     pushl
                                      14
                                                  DF
                                                        00E2
00E5
                                                                         75$:
                                                                                                                                       push address of buffer push address of length
                                                                                     pushal
                                          AE 02450 A2 C10 A2
                                                  DFB09444153A5FCBB0
                                                                                     pushal
                                                                                                 #2.g^lib$free_vm
                     00000000 GF
                                                                                     calls
addl2
                                                                                                                                       free buffer
                                                        00EF
00F2
                                                                                                 #4.sp
                                   5E
                                                                   180
181
183
184
186
188
189
191
193
194
197
                                                                                                ; if deallocation error indicate buffer not a strong indicate buffer not a strong indicate buffer not a strong indexed fcb_l_attr(r2),85$; if indexed fcb_l_kcb(r2); kcb allocated?
                                                                                     blbc
                                                                                                                                       ; if deallocation error then fail
                                                        00F5
                                                                                     clrl
                                                                                                                                       indicate buffer not allocated
                                                        00F8
                                      18
                                                                                     clrl
                                                        OOFB
OOFF
                         23 OC A2 38
                                   0101
                                                                         80$:
                                                                                     clrb
                                                                                     bbc
                                                        0104
0107
0109
010D
0111
                                                                                     tstl
                                                                                                                                      ;if eql, no, cont
;get number of kcbs
                                                                                     begl
                                                                                                 fcb_b_numkcbs(r2),r1
#kcb_c_len,r1,-(sp)
fcb_T_Ecb(r2)
                                      3C
                                                                                     movzbl
mull3
                                  51
                                                                                                                                       get size of kcbs
                                      38
                                                                                                                                       push address of kcbs
                                                                                     pushal
                                                        0114
0117
011E
0121
0124
0127
                                                                                     pushal
                                                                                                                                       push address of length
                                                                                                 4(sp)
                     0000@00'GF
                                                                                                  #2,g~lib$free_vm
                                                                                     calls
addl2
                                                                                                                                       :free kcbs
                                                                                                 #4.5p
                                      A2
38
                                                                                     blbc
                                                                                                                                       if error, fail
                                                                                     clrl
                                                                                                  tcb_l_kcb(r2)
                                                                                                                                       indicate no kcbs
                                                                            remove file from open file queue, set it not open and return
```

```
M 14
   PLISCLOSE.
                                                                                                                                                                                                                                                                                                                          16-SEP-1984 02:11:51 VAX/VMS Macro V04-00 
6-SEP-1984 11:36:29 [PLIRTL.SRC]PLICLOSE.MAR;1
                                                                                                                                           - pl1 runtime close file
   Symbol table
                                                                                                                                                                                                                                                         KCB-W-LEN2
KCB-W-LEN3
KCB-W-LEN4
KCB-W-LEN6
KCB-W-LEN6
KCB-W-POSO
KCB-W-POSO
KCB-W-POSS
                                                                                                                                                                                                                                                                                                                                                                                                      00000012
00000016
0000001E
00000022
00000026
00000008
000000010
00000014
00000018
00000018
                                                                                                                                              00000001
00090053
00020000
00000040
00000002
   $$.TMP1
$$.TMP2
                                                                                                                                        =
ATR M BFALL

ATR M INPUT

ATR M OPENED

ATR W PECORD

ATR V OPENED

ATR V PRINT

ATR W PECORD

ENV L FILEIDTO

ENV L FILEIDTO

ENV L FACTILTO

ENV L STATUS

ENV M CLOSE

ENV Q CREDATE

ENV W OWNGROUP

ENV W OWNGROUP

ENV W OWNGROUP

ENV W PROT

FCB B ENVIR

FCB B ENVIR
                                                                                                                                        =
                                                                                                                                       =
                                                                                                                                       =
                                                                                                                                              00000002
0000100
00000001
00000007
00000000
00000022
00000014
00000018
                                                                                                                                       =
                                                                                                                                       =
                                                                                                                                       =
                                                                                                                                       =
                                                                                                                                                                                                                                                                                                                                                                                                        00000024
                                                                                                                                               0000004
00000004
0000000C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       02
                                                                                                                                                                                                                                                                                                                                                                                                        ******
                                                                                                                                                                                                                                                                                                                                                                                               = 0000000B
                                                                                                                                                                                                                                                                                                                                                                                                        ******
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       02
02
02
                                                                                                                                                                                                                                                           PLISSPUT REC
                                                                                                                                                 0000001E
                                                                                                                                                                                                                                                                                                                                                                                                        *******
                                                                                                                                                00000020
0000001c
                                                                                                                                                                                                                                                                                                                                                                                                        00000000 RG
                                                                                                                                                                                                                                                         PLISIO ERROR
PLIS ERROR
PLIS PARM
PLIS RMSF
PLIS VIRMEMDEAL
                                                                                                                                                                                                                                                                                                                                                                                                        ******
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       200505
                                                                                                                                                 000001c2
                                                                                                                                                                                                                                                                                                                                                                                                        *******
                                                                                                                                                 0000012E
                                                                                                                                                                                                                                                                                                                                                                                                        *******
                                                                                                                                                000000A6
                                                                                                                                                                                                                                                                                                                                                                                                        *******
                                                                                                                                                                                                                                                                                                                                                                                                        *******
                                                                                                                                                                                                                                                          SYSSCLOSE
                                                                                                                                                 00000040
                                                                                                                                                                                                                                                                                                                                                                                               = 00000001
                                                                                                                                                 00000042
                                                                                                                                                                                                                                                                                                                                                                                                                                                  GX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       02
                                                                                                                                                                                                                                                                                                                                                                                                        ******
                                                                                                                                                000000F6
0000003C
                                                                                                                                                00000062
                                                                                                                                                000001c2
                                                                                                                                                00000034
                                                                                                                                                00000000
                                                                                                                                                00000014
                                                                                                                                                00000018
                                                                                                                                                0000001C
                                                                                                                                                000001B2
                                                                                                                                                000001AE
 FCB_L_CONDI
FCB_L_DTTR
FCB_L_ERROR
FCB_L_KCB
FCB_L_NEXT
                                                                                                                                                00000010
                                                                                                                                                00000003
                                                                                                                                                 00000038
FCB L NEXT
FCB L PREVIOUS
FCB L PRN
FCB Q RFA
FCB W COLUMN
FCB W IDENT LEN
FCB W LINESIZE
FCB W PAGE
FCB W PAGE
FCB W PAGESIZE
FCB W REVISION
KCB C LEN
KCB L DTYP
KCB L PREC
KCB L ZERO
KCB W LENO
KCB W LENO
KCB W LENO
                                                                                                                                                 00000000
                                                                                                                                                 00000004
                                                                                                                                                 00000034
                                                                                                                                                 00000020
                                                                                                                                                 0000002E
                                                                                                                                                 00600040
                                                                                                                                                 00000030
                                                                                                                                                 0000002A
                                                                                                                                                 00000032
                                                                                                                                                 0000002
                                                                                                                                                00000028
0000002C
                                                                                                                                                 00000000
                                                                                                                                                00000028
0000000A
                                                                                                                                                 000000E
```

N 14

PLISCLOSE Psect synopsis -- pl1 runtime close file

16-SEP-1984 02:11:51 VAX/VMS Ma o V04-00 Page 7 6-SEP-1984 11:36:29 [PLIRTL.SR] PLICLOSE.MAR;1 (1)

Psect synopsis!

	PSECT name	Allocation			PSECT			utes									
The same of the sa	ABS . \$ABS\$ _PLI\$CODE	00000000 000001C2 0000012E	(((450.) 302.)	00 (01 (02 (0.)	NOPIC NOPIC PIC	USR USR USR	CON CON	ABS ABS REL	LCT CCT	NOSHR NOSHR SHR	NOEXE EXE EXE	NORD RD RD	NOWRT WRT NOWRT	NOVEC NOVEC NOVEC	BYTE BYTE LONG

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	9	00:00:00.03	00:00:01.09
Command processing Pass 1	72 176	00:00:06.10	00:00:23.63
Symbol table sort	41	00:00:00.63	00:00:02.03
Symbol table output Psect synopsis output	9	00:00:00.08	80.00:00:00
Cross-reference output Assembler run totals	309	00:00:00.00	00:00:00.00

The working set limit was 900 pages.
30745 bytes (61 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 516 non-local and 16 local symbols.
203 source lines were read in Pass 1, producing 13 object records in Pass 2.
18 pages of virtual memory were used to define 16 macros.

! Macro library statistics !

Macro library name

Macros defined

_\$255\$DUA28:[PLIRTL.OBJ]PLIRTMAC.MLB;1
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

13

593 GETS were required to define 13 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=TRACEBACK/LIS=LIS\$:PLICLOSE/OBJ=OBJ\$:PLICLOSE MSRC\$:PLICLOSE/UPDATE=(ENH\$:PLICLOSE)+LIB\$:PLIRTMAC/L

0306 AH-BT13A-SE

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